

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P653697

Luminaire Tested: **GLAN-SA2A-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5769.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

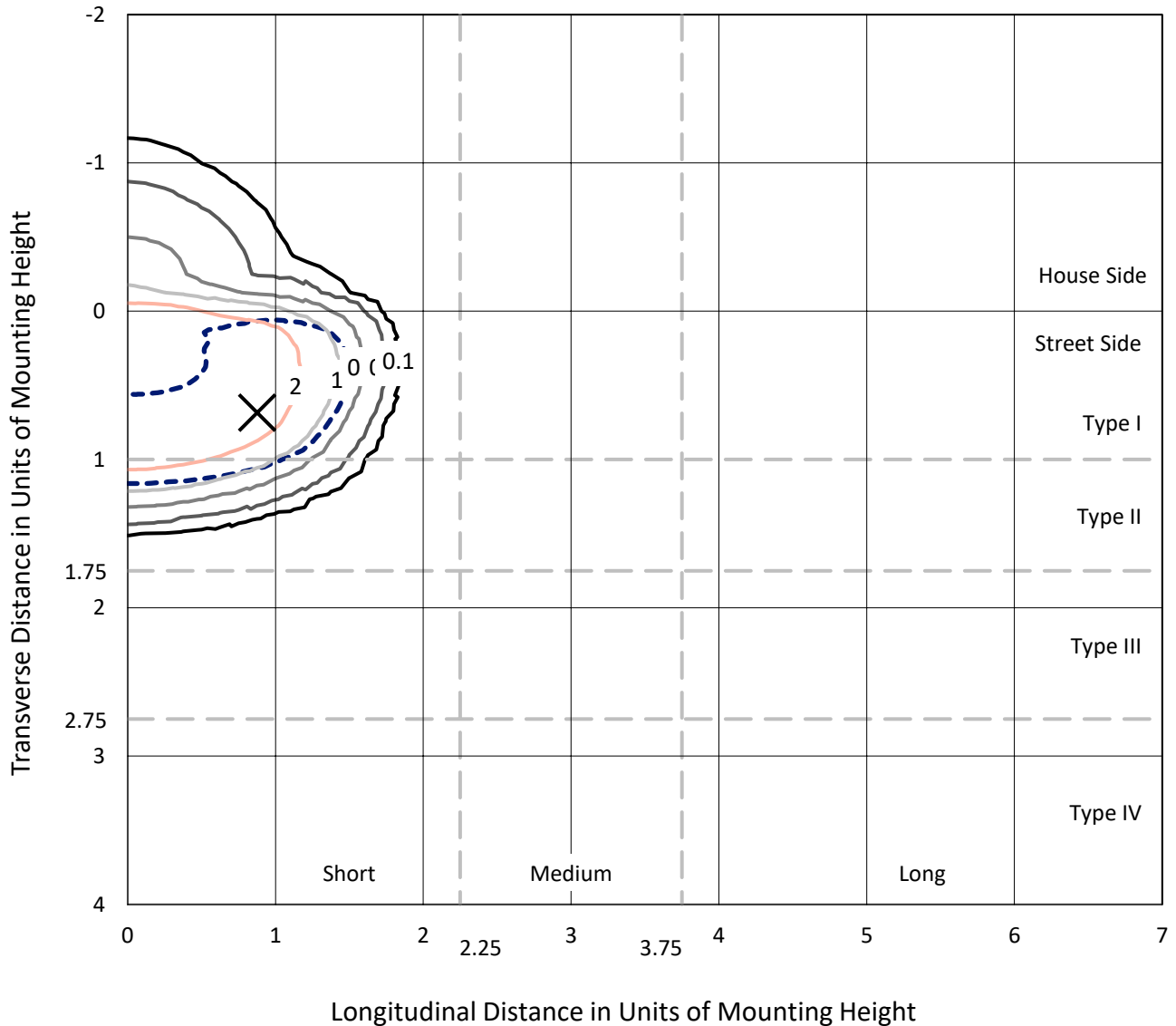
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

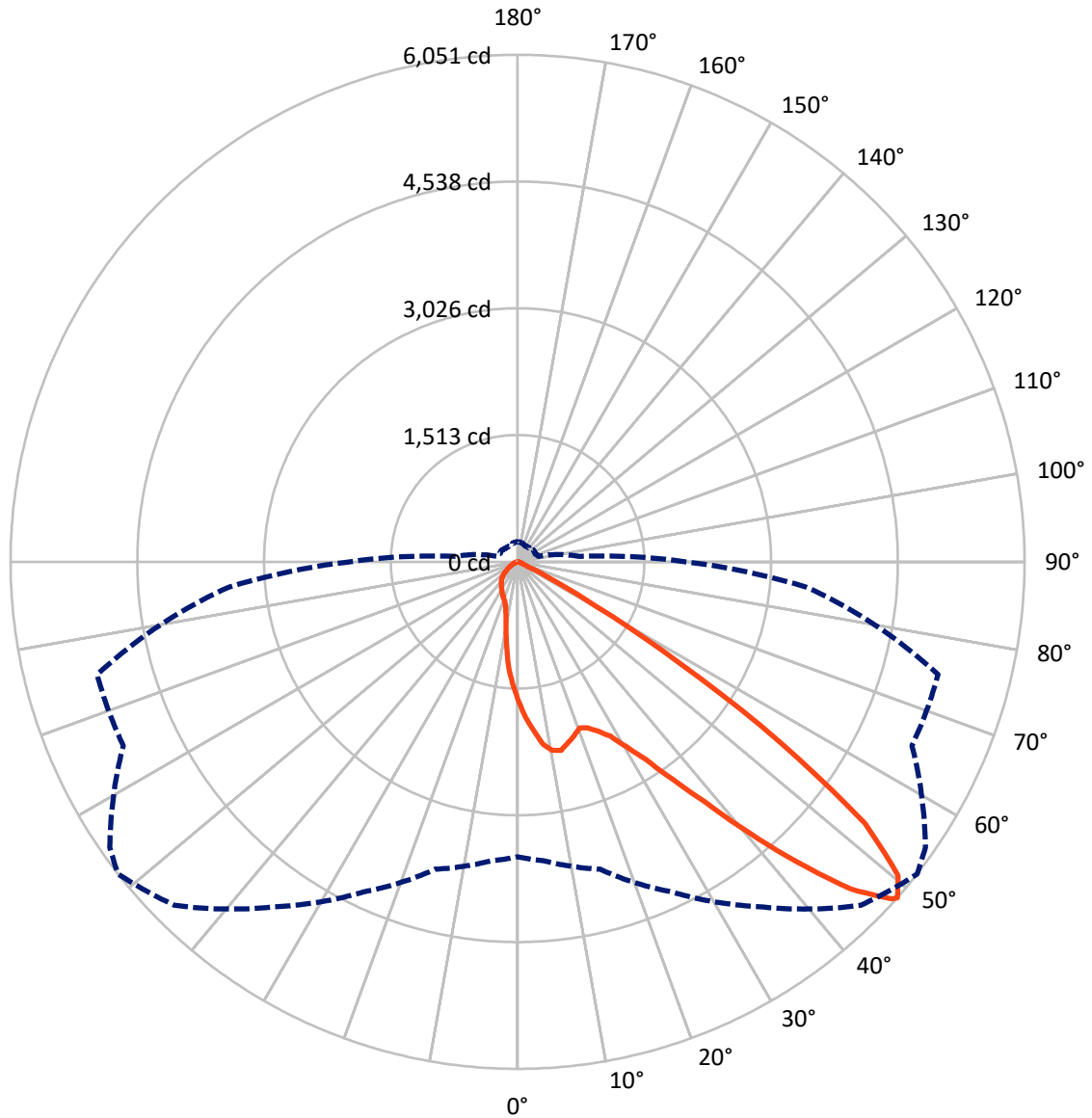
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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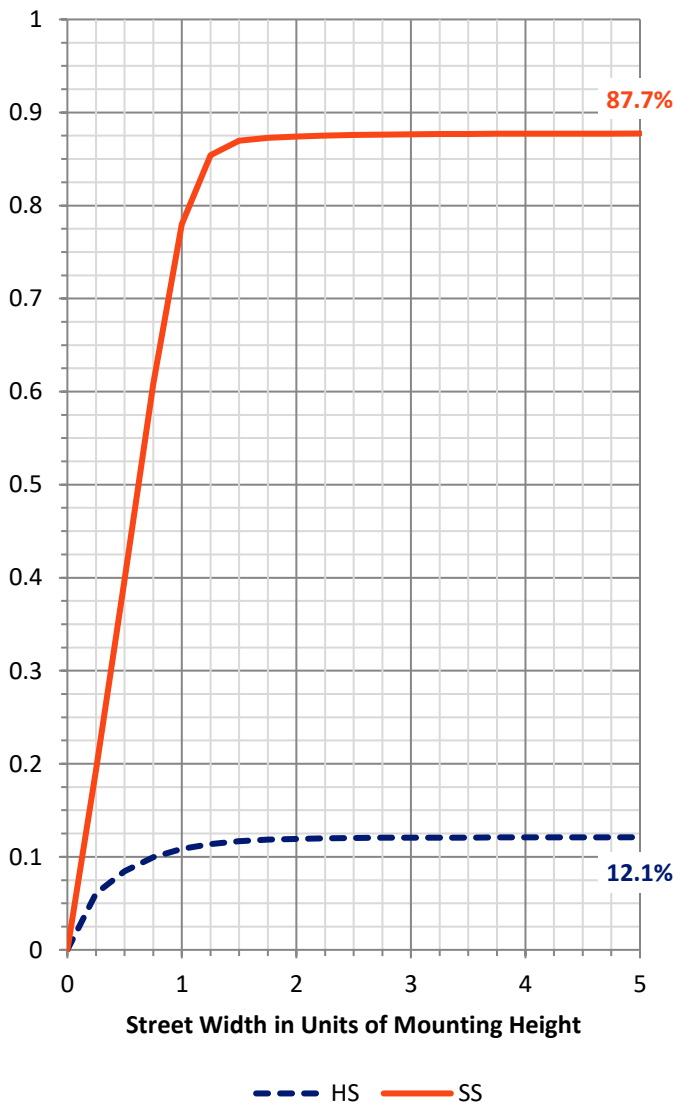
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	702.4	0.0	702.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5066.8	0.0	5066.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	5769.2	0.0	5769.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	2.6
10°-20°	398.5	6.9
20°-30°	680.4	11.8
30°-40°	1253.0	21.7
40°-50°	1945.9	33.7
50°-60°	1171.1	20.3
60°-70°	135.5	2.3
70°-80°	26.2	0.5
80°-90°	6.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5769.2	100.0
0°-180°	5769.2	100.0

Coefficient of Utilization



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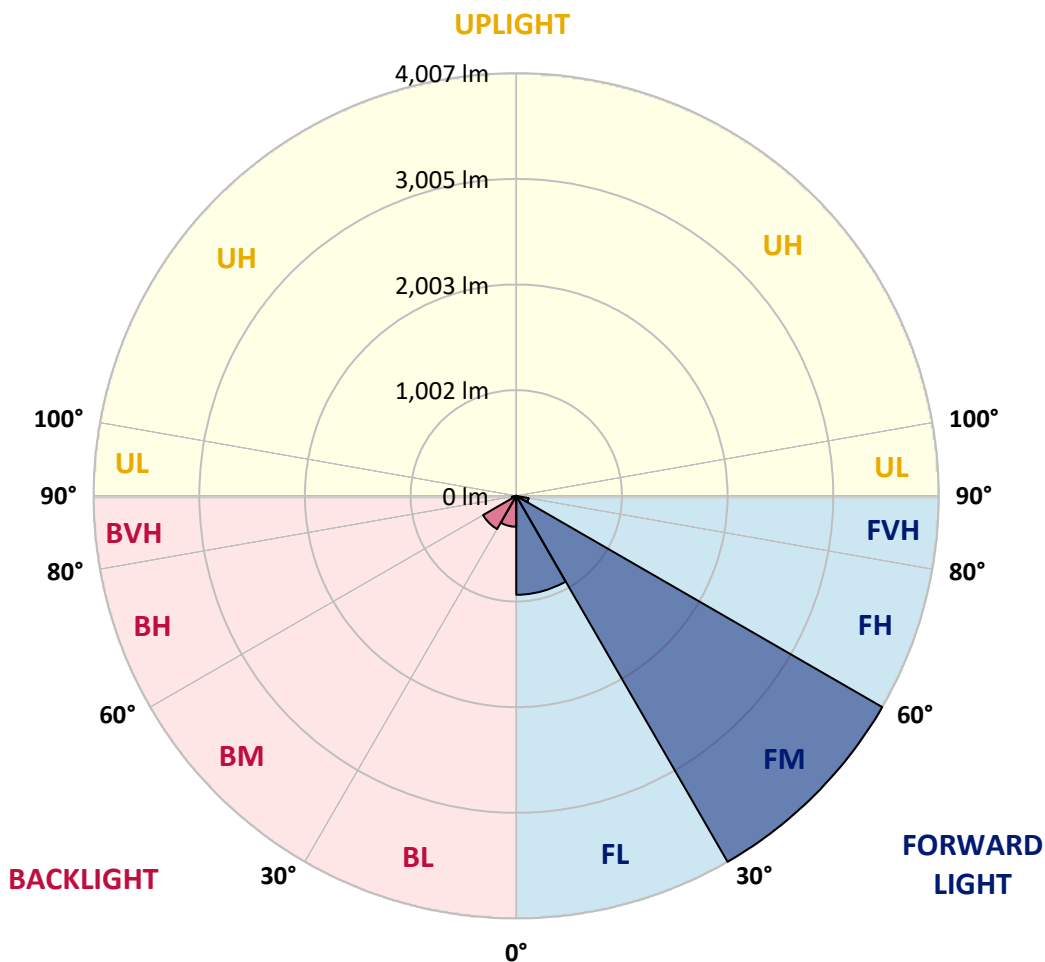
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.0	16.3			
FM (30°-60°)	4006.6	69.4			
FH (60°-80°)	119.3	2.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	293.4	5.1	B1/500		
BM (30°-60°)	363.4	6.3	B1/1000		
BH (60°-80°)	42.4	0.7	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1
2.5°	2019.3	1973.1	1977.3	1947.0	1929.3	1900.7	1862.1	1854.5	1812.4	1755.3	1697.2
5°	2201.0	2190.0	2204.3	2160.6	2162.3	2115.2	2024.4	2026.1	1929.3	1836.0	1746.0
7.5°	2212.8	2187.5	2201.8	2240.5	2263.2	2254.8	2203.5	2158.9	2067.3	1930.2	1799.0
10°	1981.5	2029.4	2044.6	2108.5	2199.3	2295.2	2289.3	2291.8	2215.3	2036.1	1844.4
12.5°	1842.7	1810.8	1862.1	1900.7	2037.8	2223.7	2308.6	2327.1	2333.0	2138.7	1889.8
15°	1779.6	1779.6	1788.1	1799.0	1898.2	2069.8	2243.0	2296.9	2423.8	2273.3	1961.3
17.5°	1819.2	1817.5	1829.3	1806.6	1843.6	1975.6	2182.5	2243.9	2525.6	2405.3	2017.6
20°	1939.4	1945.3	1937.7	1872.2	1874.7	1973.9	2115.2	2211.9	2594.6	2519.7	2092.5
22.5°	2106.8	2110.2	2067.3	1995.8	1974.8	2023.5	2153.9	2227.9	2650.1	2656.8	2115.2
25°	2300.2	2286.8	2278.4	2177.4	2113.5	2155.6	2241.3	2284.2	2684.6	2774.5	2180.0
27.5°	2568.5	2541.6	2490.3	2400.3	2353.2	2293.5	2354.9	2425.5	2783.0	2939.4	2250.6
30°	2964.6	2941.1	2841.0	2724.9	2601.3	2542.4	2561.8	2600.5	2960.4	3130.3	2344.0
32.5°	3560.9	3511.3	3366.6	3145.4	2977.2	2814.9	2809.9	2851.1	3119.4	3394.4	2455.0
35°	4217.7	4202.6	3989.8	3761.9	3436.4	3185.8	3190.0	3211.9	3423.8	3740.9	2600.5
37.5°	4654.3	4737.5	4602.0	4357.3	4084.0	3725.7	3634.9	3642.5	3841.8	4151.3	2862.8
40°	4991.5	4920.9	4936.8	4879.7	4692.9	4449.0	4248.0	4208.4	4325.3	4605.4	3123.6
42.5°	4844.3	4847.7	4946.1	5081.5	5127.7	5110.1	4904.9	4830.0	4739.2	4977.2	3371.7
45°	4428.8	4515.4	4643.3	5001.6	5316.1	5611.3	5571.0	5446.5	5025.1	5271.6	3514.6
47.5°	3766.1	3762.7	3972.1	4438.0	5137.0	5828.3	6011.6	5924.2	5227.8	5238.8	3485.2
48°	3521.4	3581.9	3798.0	4346.4	5023.5	5796.3	6051.2	5941.0	5193.3	5195.0	3460.0
50°	2603.0	2592.0	2861.2	3534.0	4486.8	5446.5	5884.6	5970.4	5192.5	4973.8	3283.3
52.5°	1375.0	1422.1	1618.2	2222.0	3172.3	4457.4	5190.8	5324.5	5009.2	4612.1	3029.4
55°	584.5	528.1	678.7	1003.3	1784.7	2978.1	3808.1	4105.8	4235.4	4081.5	2650.1
57.5°	208.6	227.9	262.4	377.6	750.2	1629.9	2270.8	2502.1	2934.3	2994.9	1805.7
60°	133.7	136.2	147.2	173.2	281.7	628.2	1077.3	1261.5	1457.5	1504.5	842.7
62.5°	103.4	104.3	109.3	113.5	133.7	243.9	404.5	479.4	497.9	428.1	221.2
65°	86.6	87.5	89.1	89.1	95.0	114.4	141.3	155.6	151.4	149.7	125.3
67.5°	66.4	68.1	71.5	71.5	74.8	69.8	78.2	83.3	94.2	114.4	106.8
70°	52.1	53.0	55.5	57.2	57.2	50.5	56.3	61.4	69.0	84.9	84.1
72.5°	40.4	42.0	43.7	43.7	41.2	34.5	40.4	44.6	49.6	58.9	57.2
75°	31.1	31.1	32.0	26.1	20.2	17.7	24.4	29.4	37.0	38.7	32.0
77.5°	8.4	9.3	8.4	7.6	8.4	12.6	16.0	18.5	23.5	23.5	21.0
80°	0.0	0.8	2.5	5.0	8.4	11.8	14.3	16.0	18.5	20.2	19.3
82.5°	0.0	0.8	2.5	5.0	7.6	9.3	12.6	13.5	15.1	17.7	17.7
85°	0.0	0.8	1.7	3.4	5.0	5.9	5.9	5.0	5.0	4.2	3.4
87.5°	0.0	0.0	0.8	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1
2.5°	1674.5	1648.4	1608.9	1546.7	1486.9	1448.2	1411.2	1370.0	1347.3	1345.6	1333.0
5°	1694.7	1635.8	1541.6	1434.7	1320.4	1222.0	1122.7	1058.0	999.9	968.0	962.1
7.5°	1705.6	1629.1	1476.8	1297.7	1102.6	941.9	830.9	749.3	717.4	693.8	693.0
10°	1728.3	1617.3	1380.1	1116.0	874.6	712.3	635.8	598.8	581.1	574.4	564.3
12.5°	1745.2	1595.5	1280.8	929.3	691.3	590.4	556.7	548.3	549.2	552.5	548.3
15°	1768.7	1576.1	1147.1	762.8	580.3	531.5	531.5	533.2	545.0	546.6	545.8
17.5°	1767.0	1538.2	1009.2	628.2	513.0	506.3	508.8	524.8	532.4	534.9	529.0
20°	1787.2	1502.9	867.1	536.6	475.2	485.3	502.1	506.3	515.5	517.2	510.5
22.5°	1781.3	1414.6	735.0	464.2	446.6	465.9	482.7	487.8	485.3	480.2	479.4
25°	1770.4	1338.9	613.9	416.3	425.5	446.6	462.6	453.3	448.3	449.1	449.9
27.5°	1751.0	1243.0	513.9	382.7	397.0	428.1	427.2	423.9	428.9	424.7	428.9
30°	1747.7	1147.1	431.4	352.4	375.9	398.6	400.3	406.2	412.1	404.5	412.1
32.5°	1752.7	1042.0	372.6	333.9	363.3	364.2	382.7	388.5	384.3	367.5	369.2
35°	1791.4	961.3	329.7	323.8	343.1	344.0	361.6	354.1	335.6	325.5	331.4
37.5°	1873.0	894.0	309.5	314.5	316.2	327.1	328.0	312.9	314.5	313.7	317.1
40°	1977.3	842.7	295.2	306.1	304.4	312.0	281.7	290.1	297.7	300.2	301.9
42.5°	2048.8	805.7	285.9	292.7	289.3	275.8	259.0	267.4	273.3	282.6	284.3
45°	2080.7	776.2	275.0	269.1	269.1	244.7	238.0	239.7	253.1	263.2	261.6
47.5°	2028.6	747.6	255.7	238.0	243.9	223.7	216.1	216.1	230.4	243.0	240.5
48°	2008.4	735.9	256.5	231.3	235.5	220.3	212.8	211.1	227.1	238.8	238.8
50°	1908.3	692.1	234.6	212.8	204.4	202.7	197.6	199.3	209.4	220.3	220.3
52.5°	1713.2	598.0	198.5	182.5	167.4	177.5	180.0	176.6	181.7	191.7	190.9
55°	1429.7	459.2	158.9	151.4	139.6	150.5	155.6	151.4	146.3	153.9	153.9
57.5°	915.8	247.3	127.0	128.7	116.9	127.8	132.0	121.9	112.7	118.6	117.7
60°	412.9	148.0	104.3	101.8	94.2	106.8	113.5	101.8	89.1	93.4	97.6
62.5°	154.7	105.1	79.1	77.4	75.7	87.5	90.8	81.6	69.0	71.5	72.3
65°	113.5	92.5	63.1	57.2	60.6	69.0	67.3	58.0	49.6	49.6	51.3
67.5°	96.7	80.7	51.3	44.6	44.6	45.4	42.0	37.0	34.5	36.2	37.8
70°	75.7	63.9	40.4	34.5	31.1	27.8	24.4	23.5	21.0	23.5	22.7
72.5°	48.8	42.9	31.1	26.1	23.5	19.3	16.0	15.1	12.6	11.8	11.8
75°	26.1	26.1	24.4	21.0	18.5	15.1	12.6	10.1	6.7	5.0	5.0
77.5°	18.5	20.2	21.9	20.2	16.8	12.6	10.1	6.7	3.4	1.7	1.7
80°	17.7	20.2	21.9	19.3	16.8	12.6	9.3	5.0	2.5	0.8	0.8
82.5°	16.0	18.5	20.2	17.7	15.1	10.9	8.4	5.0	2.5	0.8	0.8
85°	3.4	4.2	5.0	5.0	5.9	7.6	5.9	4.2	1.7	0.8	0.8
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)